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Chapter 1 Description

1.1 Notice

The manufacturer shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages in connection with the furnishing, performance, or use of this publication.

FCC Approval

This device had been test in accordance with the procedures given in ANSI C63.4 (1992) and confirmed to complies with the limits for a CLASS B digital pursuant to part 15 of the FCC Rules.

CE Standards

The CE mark as shown here indicates this product had been tested in accordance with the procedures given in European Council Directive 89/336/EEC and confirmed to comply with the European Standard EN55022:1994/ A1: 1995 Class B, EN 55024/1998.

1.2 Introduction

The Decoder is an advanced and versatile decoding facility for barcoding systems .It works with variety of bar code types, reading devices, and computer interfaces. It discriminates about twenty different symbologies automatically.

This menu provide an easy way to config the decoding options and interface selections by scanning bar codes listed in the menu.

1.3 Codes Read

Codes Read
ALL UPC/EAN/JAN , Code 39, Code 39 Full ASCII, Code 128, Interleave 25, Industrial 25, Matrix 25, CODABAR/NW7, Code 11, MSI/PLESSEY, Code 93, China Postage, Code32/Italian Pharmacy
Others available upon request.

1.4 Installation

Unpacking –
Remove the scanner from its packing and check it for damage. If the scanner was defected in transit, please contact your vendor immediately. Be sure that you keep the packing with all accessories contains in the package for your returning of service.

Connecting the scanner –
Keyboard wedge/RS-232C/USB:
Connect the 10-pins RS-45 male connector into the bottom of the scanner and you will hear a "click" when the connection is made.

Power supply for RS-232C scanner–

There are 3 ways to supplying the power, use external +5V power supply, use optional power cable (KBDC) which taking the power from KB wedge or if the host supports +5V power from pin 9.

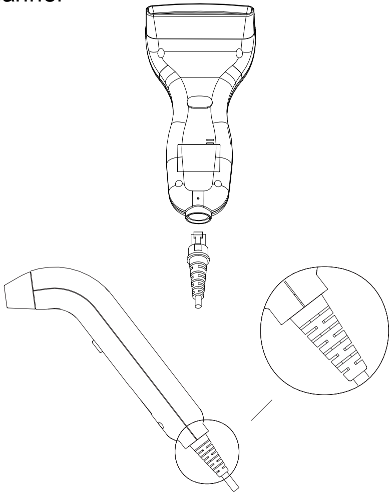
Installing the scanner to the Host System –

1. Turn off the host system.
2. Connect the power if needed.
3. Connect to the proper port on the host system.
4. Turn on the host system.
5. For USB interface under DOS environmemt , please enable USB keyboard in Bios setting.

Switching cable –

Before removing the cable from the scanner, it is recommended that the power on the host system is off and the power supply has been disconnected from unit.

1. Find the small "Pin-hole" on the bottom of the unit.
2. Use a bended regular paperclip and insert the tip into the hole.
3. You will head a "click", then gentle on the strain-relief of.the cable and it will slide out of the scanner



CD-2860

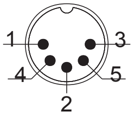
1.5 Pin Assignment

A> Output Port

1. PC Keyboard Output

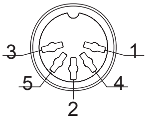
DIN 5 MALE

Pin No.	Function
1	HOST CLK
2	HOST DATA
4	GND
5	Vcc(+5V)



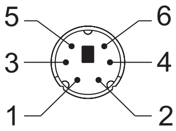
DIN 5 FEMALE

Pin No.	Function
1	KB CLK
2	KB DATA
4	GND
5	Vcc(+5V)



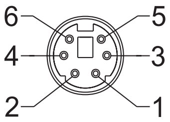
MiniDIN 6 MALE

Pin No.	Function
1	HOST DATA
3	GND
4	Vcc
5	HOST CLK



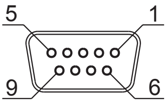
MiniDIN 6 FEMALE

Pin No.	Function
1	KB DATA
3	GND
4	Vcc
5	KB CLK



2. RS-232 Output
DB 9 Female

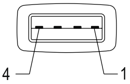
Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)





3. USB Interface
USB A Type Male

Pin No.	Function
1	Vcc
2	D-
3	D+
4	GND



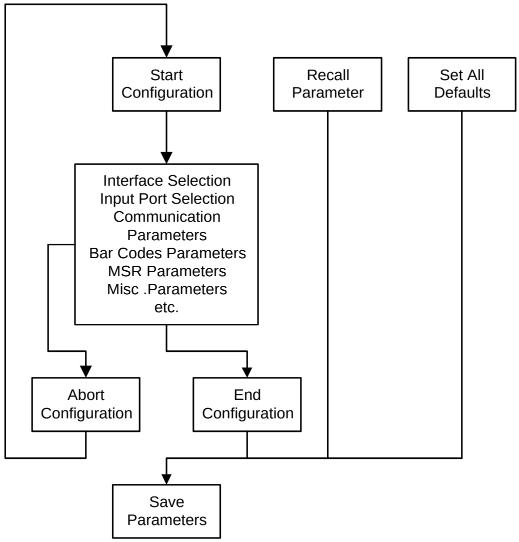
1.6 Specification

	CD–2860
Interface	TTL, Keyboard
Code Read	ALL UPC/EAN/JAN , Code 39, Code 39 CODABAR/NW7, Code 11, MSI/PLE
Width of Window	80mm
Depth of Field	25mm
Resolution	
Ambient Light	1500Lux
Scan Speed	100
Voltage	
Operating Temperature	0°C
Storage Temperature	-20°C
Relative Humidity	20%
Cable	

, RS232, USB and WAND Emulation
Full ASCII, Code 128, Interleave 25, Industrial 25, Matrix 25, SSEY, Code 93, China Postage, Code32/Italian Pharmacy
DC +5V ± 5%
to 40°C (32°F to 104°F)
to 60°C (-4°F to 140°F)
to 85% (Non-Condensing)
Straight, 5 ft.

Chapter 2 Configuration - General

2.1 Flow Chart



2.2 Loop of Programming

The philosophy of programming parameters has been shown on the flow chart of 2.1. Basically user should

1. Scan Start of Configuration.
2. Scan all necessary labels for parameters that meet applications.
3. Scan End of Configuration to end the programming.
4. To permanently save the settings you programmed, just scan label for Save Parameters.
5. To go back to the Default Settings, just scan label for Set All Defaults.

2.3 Factory Default Settings

The factory default settings are shown with < > and bold in the following sections. You can make your own settings by following the procedures in this manual. If you want to save the settings permanently, you should scan the label of "Save Parameters" in chapter 2.4, otherwise the settings will not be saved after the decoder power is off, and all settings will go back to previous settings.

By scanning "Set All Default" label, the settings will go back to the factory default settings.

2.4 Main Page of Configuration

Save Parameters	%$+/0
Recall Stored Parameters	%$+/1
Set All Defaults	%$+/2
Start Configuration	%$+/3
End Configuration	%$+/4
Abort Configuration	%$+/6
Version Information	%$+/5

Save Parameters -
The parameter settings will be saved permanently.

Recall Stored Parameters -
Replace the current parameters by the parameters you saved last time.

Set All Defaults -
Set all the parameters to the factory default settings.

Abort Configuration -
Terminate current programming status.

Version Information -
Display the decoder version information and date code.

Chapter 3 Interface and Reading Mode Selection

3.1 Interface Selection

<Keyboard Mode>

%00U0

RS232 Mode

%00U8

WAND Emulation

%00M2

OCIA Mode

%00M4

USB Mode

%0XO8

3.2 Memory Function

<Enable>

%0XI 2

Disable

%0XI 0

3.3 Reading Mode Selection

<Good Read OFF>

%0271

Trigger ON/OFF

%0270

Continuous/Trigger OFF

%0272

Testing

%0275

Continuous/Auto Power On

%0273

Flash

%0274

Flash/Auto Power On

%0276

Reserved1

%0277

Reserved2

%09F8

Reserved3

%09F9

Reserved4

%09FA

Reserved5

%09FB

Ch.4 Communication Parameters

4.1 RS232 Mode Parameters

A> Set Up BAUD Rate

600

%0Y70

1200

%0Y71

2400

%0Y72

4800

%0Y73

<9600>

%0Y77

19200

%0Y74

38400

%0Y75

B> Set Up Data Bits

7 Data Bits

%0Y80

<8 Data Bits>

%0Y88

C> Set Up Stop Bits

<1 Bit>

%0YO8

2 Bits

%0YO0

D> Set Up Parity

<None>

%0YN7

Even

%0YN2

Odd

%0YN3

Mark

%0YN1

Space

%0YN0

E> Handshaking

RTS/CTS Enable

%0188

<RTS/CTS Disable>

%0180

ACK/NAK Enable

%0144

<ACK/NAK Disable>

%0140

XON/XOFF Enable

%03K4

<XON/XOFF Disable>

%03K0

4.2 Keyboard Wedge Mode Parameters

A> Terminal Type

<IBM PC/AT, PS/2>

%0ZF0

IBM PC/XT

%0ZF1

IBM PS/2 25, 30

%0ZF2

NEC 9800

%0ZF3

Apple Desktop Bus(ADB)

%0ZF4

IBM 5550

%0ZF5

IBM 122 Key (1)

%0ZF6

IBM 102 Key

%0ZF7

IBM 122 Key (2)

%0ZF8

Reserved 1

%0ZF9

Reserved 2

%0ZFA

Reserved 3

%0ZFB

Reserved 4

%0ZFC

Reserved 5

%0ZFD

B> Upper/Lower Case

<No Change>

%0330

Upper Case

%0331

Lower Case

%0332

C> Send Character by ALT Method

Enable

%03O8

<Disable>

%03O0

D> Select Numerical Pad

ON

%01K4

<OFF>

%01K0

4.3 Output Characters Parameters

A> Select Terminator

<CR>

%7 S0 +

None

%7 S7 +

CR+LF

%7 S2 +

LF

%7 S1 +

Space

%7 S4 +

HT(TAB)

%7 S3 +

STX-ETX

%7 S5 +

B> Time-out Between Characters

<0 ms>

%0070

5 ms

%0071

10 ms

%0072

25 ms

%0073

50 ms

%0074

100 ms

%0075

200 ms

%0076

300 ms

%0077

4.4 Wand Emulation Mode Parameters

A> TTL Level Representation

<Bar Equals High>

%02K4

Bar Equals Low

%02K0

B> Scan Speed Selection

<Fast>

%0288

Slow

%0280

C> Output Format Selection

<Output as Code 39>

%02O8

Output as Code 39
Full ASCII

%02O0

Output as Original
Code Format

%0XK4

4.5 OCIA Mode Parameters

<NCR 8 Bit Format>

%02J0

NCR 9 Bit Format

%02J1

Spectra-Physics

%02J2

Nixdorf

%02J3

Ch.5 Bar Codes & Others

5.1 Symbologies Selection

UPC-A **<ON>**

%0A44

OFF

%0A40

UPC-E **<ON>**

%0BO8

OFF

%0BO0

EAN-13/JAN-13 **<ON>**

%0A22

OFF

%0A20

EAN-8/JAN-8 **<ON>**

%0A11

OFF

%0A10

CODE 39 **<ON>**

%0EO8

OFF

%0EO0

CODE 128 **<ON>**

%0FO8

OFF

%0FO0

CODABAR/NW7 **<ON>**

%0JO8

OFF

%0JO0

Interleave 25 **<ON>**

%0 GO8

OFF

%0 GO0

Industrial 25 ON

%0 HO8

<OFF>

%0 HO0

Matrix 25 ON

%0 I O8

<OFF>

%0 I O0

CODE 93 ON

%0 KO8

<OFF>

%0 KO0

CODE 11 ON

%0 L O8

<OFF>

%0 L O0

China Postage ON

%0 MO8

<OFF>

%0 MO0

MSI/PLESSEY ON

%0 NO8

<OFF>

%0 NO0

BC412 ON

%0 OO8

<OFF>

%0 OO0

Code 2 of 6 ON

%0 PO8

<OFF>

%0 PO0

Telepen ON

%0 TO8

<OFF>

%0 TO0

Reserved4 ON

%0 QO8

<OFF>

%0 QO0

Reserved5 ON

%0 RO8

<OFF>

%0 RO0

Reserved6 ON

%0 SO8

<OFF>

%0 SO0

Select All Bar Codes

%1 A/ +

5.2 UPC/EAN/JAN Parameters

A> Reading Type

UPCA=EAN13 ON

%0AK4

UPCA=EAN13<OFF>

%0AK0

ISBN Enable

%0B88

ISBN **<Disable>**

%0B80

ISSN Enable

%0B44

ISSN **<Disable>**

%0B40

Decode with Supplement

%01O0

<Autodiscriminate Supplement>

%01O8

B> Supplementals Set Up

<Not Transmit>

%0B33

Transmit 2 Code

%0B31

Transmit 5 Code

%0B32

Transmit 2&5 Code

%0B30

C> Check Digit Transmission

UPC-A Check Digit
Transmission **<ON>**

%0AI 2

OFF

%0AI 0

UPC-E Check Digit
Transmission **<ON>**

%0BI 2

OFF

%0BI 0

EAN-8 Check Digit
Transmission <ON>

%0A8 8

OFF

%0A8 0

EAN-13 Check Digit
Transmission <ON>

%0AH1

OFF

%0AH0

5.3 Code 39 Parameters

A> Type of Code

<Standard>

%0EH1

Full ASCII

%0EH0

Italian Pharmacy/Code 32
<OFF>

%0E80

Italian Pharmacy/
Code 32 ON

%0E88

B> Check Digit Transmission

**<Do Not Calculate
Check Digit>**

%0EM2

Calculate Check Digit
& Transmit

%0EM6

Calculate Check Digit
& Not Transmit

%0EM4

C> Output Start/Stop Character

Enable

%0E44

<Disable>

%0E40

D> Decode Asterisk

Enable

%0E22

<Disable>

%0E20

E> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4E1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4E00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4E01

1. 2nd Set Begin

%4E00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4E02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2C0+

5.4 Code 128 Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit

%0FN1

Calculate Check
Digit & Transmit

%0FN7

**<Calculate Check Digit
& Not Transmit>**

%0FN5

B> Append FNC2

ON

%0F88

<OFF>

%0F80

C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4F1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4F00

2. Decimal Value
(Appendix A)

3. 1st Set Complete

%4F01

1. 2nd Set Begin

%4F00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete

%4F02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
(Appendix A)

3. Complete

%2C1+

5.5 Interleave 25 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0GN3

Calculate Check Digit & Transmit

%0GN7

Calculate Check Digit & Not Transmit

%0GN5

B> Set Up Number of Character

<Even>

%0G88

Odd

%0G80

C> Brazilian Banking Code

<Disable>

%0G40

Enable

%0G44

D> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4G1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4G00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4G01

1. 2nd Set Begin

%4G00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4G02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2C2+

5.6 Industrial 25 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0 HN3

Calculate Check Digit & Transmit

%0 HN7

Calculate Check Digit & Not Transmit

%0 HN5

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4H1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4H00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4H01

1. 2nd Set Begin

%4H00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4H02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
   (Appendix A)

3. Complete

%2C3+

5.7 Matrix 25 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%01N3

Calculate Check Digit & Transmit

%01N7

Calculate Check Digit & Not Transmit

%01N5

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4I 1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4I 00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4I 01

1. 2nd Set Begin

%4I 00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4I 02

Minimum Length

1. Begin

%2+- /

2. Decimal Value (Appendix A)

3. Complete

%2C4+

5.8 CODABAR/NW7 Parameters

A> Set Up Start/Stop Characters Upon Transmission

ON

%0JH1

<OFF>

%0JH0

B> Transmission Type of Start/Stop

<A/B/C/D> <Start>

%04VF

<A/B/C/D> <Stop>

%04FF

A Start

%04V1

A Stop

%04F1

B Start

%04V2

B Stop

%04F2

C Start

%04V4

C Stop

%04F4

D Start

%04V8

D Stop

%04F8

C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4J1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4J00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4J01

1. 2nd Set Begin

%4J00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4J02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2C5+

5.9 Code 93 Parameters

A> Check Digit Transmission

<Calculate Check 2 Digits & Not Transmit>

%0KN4

Do Not Calculate Check Digit

%0KN3

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4K1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4K00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4K01

1. 2nd Set Begin

%4K00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4K02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2C6+

5.10 Code 11 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0LN3

Calculate Check 1 Digit & Transmit

%0LN7

Calculate Check 1 Digit & Not Transmit

%0LN5

Calculate Check 2 Digits & Transmit

%0LN6

Calculate Check 2 Digits & Not Transmit

%0LN4

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4L1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4L00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4L01

1. 2nd Set Begin

%4L00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4L02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2C7+

5.11 MSI/PLESSEY Code Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0NN3

Calculate Check Digit & Transmit

%0NN7

Calculate Check Digit & Not Transmit

%0NN5

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4N1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4N00

2. Decimal Value
(Appendix A)

3. 1st Set Complete

%4N01

1. 2nd Set Begin

%4N00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete

%4N02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
(Appendix A)

3. Complete

%2C9+

5.12 BC 412 Code Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit

%0ON3

<Calculate Check Digit & Transmit>

%0ON7

Calculate Check Digit
& Not Transmit

%0ON5

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4O1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4O00

2. Decimal Value (Appendix A)

3. 1st Set Complete

%4O01

1. 2nd Set Begin

%4O00

2. Decimal Value (Appendix A)

3. 2nd Set Complete

%4O02

Minimum Length

1. Begin

%2+-/

2. Decimal Value (Appendix A)

3. Complete

%2CA+

5.13 Code 2 of 6 Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit

%0PN3

<Calculate Check Digit & Transmit>

%0PN7

Calculate Check Digit
& Not Transmit

%0PN5

B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4P1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4P00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4P01

1. 2nd Set Begin

%4P00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4P02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
   (Appendix A)

3. Complete

%2CB+

5.14 Telepen Parameters

A> Type of Code

<Telepen ASCII>

%0T80

Telepen Numeric

%0T88

B> Check Digit Transmission

Do Not Calculate
Check Digit

%0TN3

Calculate Check
Digit & Transmit

%0TN7

**<Calculate Check Digit
& Not Transmit>**

%0TN5

C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4T1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4T00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4T01

1. 2nd Set Begin

%4T00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4T02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
   (Appendix A)

3. Complete

%2CF+

Ch.6 Miscellaneous Parameters

6.1 Language Selection

<US English>

%0ZV0

UK English

%0ZV1

Italian

%0ZV2

Spanish

%0ZV3

French

%0ZV4

German

%0ZV5

Swedish

%0ZV6

Switzerland

%0ZV7

Hungarian

%0ZV8

Japanese

%0ZV9

Belgium

%0ZVA

Portuguese

%0ZVB

Denmark

%0ZVC

Netherlands

%0ZVD

Turkey

%0ZVE

Reserved1

%0ZVF

6.2 Bar Code ID

ON

%00H1

<OFF>

%00H0

Default

%913+

With this function ON, a leading character will be added to the output string while scanning code, user may refer to the following table to know what kind of bar code is being scanned.

Please refer to the table below for matching code ID of codes read in.

Code Type	ID	Code Type	ID
UPC-A	A	UPC-E	B
EAN-8	C	EAN-13	D
CODE 39	E	CODE 128	F
Interleave 25	G	Industrial 25	H
Matrix 25	I	Codabar/NW7	J
CODE 93	K	CODE 11	L
China Postage	M	MSI/PLESSEY	N
BC412	O	Code 2 of 6	P
Telepen	T		

User Define Code ID

To set the code ID:
1. Scan the symbologies label.
2. Go to the ASCII Tables in Appendix B, scan label that represents the desired code ID.

Note:
User define code ID will override default value. Program will not check the conflict. It is possible to have more than two symbologies which have same code ID.

UPC-A

%91A+

EAN-13/JAN-13

%91Y+

CODE 39

%91E+

CODABAR/NW7

%91J+

Industrial 25

%91H+

CODE 93

%91K+

China Postage

%91M+

BC412

%91O+

UPC-E

%91B+

EAN-8/JAN-8

%91Z+

CODE 128

%91F+

Interleave 25

%91G+

Matrix 25

%91I+

CODE 11

%91L+

MSI/PLESSEY

%91N+

Code 2 of 6

%91P+

Telepen

%91T+

Reserved4

%91Q+

Reserved5

%91R+

Reserved6

%91S+

6.3 Reading Level

Bar Equals High

%03I 2

<Bar Equals Low>

%03I 0

6.4 Accuracy

<1 Time>

%0130

2 Times

%0131

3 Times

%0132

4 Times

%0133

6.5 Buzzer Beep Tone

<High>

%01J3

Medium

%01J2

Low

%01J1

Off

%01J0

6.6 Sensitivity of Continuous Reading Mode

<Fast>

%0388

Slow

%0380

6.7 Notebook Function

Enable

%0344

<Disable>

%0340

6.8 Reverse Output Characters

<Disable>

%03H0

Enable

%03H1

6.9 Setup Deletion

To setup the deletion of output characters:

1. Scan the label of the desired set below.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be deleted.
4. Scan the "Complete" label of "Character Position to be Deleted".
5. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the number of characters to be deleted.
6. Scan the "Complete" label of "Number of Characters to be Deleted".

Repeat the steps 1 - 6 to set additional deletion.

A> Select Deletion Set Number

1. 1st Set

%800+

2. 2nd Set

%801+

3. 3rd Set

%802+

4. 4th Set

%803+

5. 5th Set

%804+

6. 6th Set

%805+

B> Symbologies Selection

UPC-A

%81A+

EAN-13/JAN-13

%81Y+

CODE 39

%81E+

CODABAR/NW7

%81J+

Industrial 25

%81H+

CODE 93

%81K+

China Postage

%81M+

UPC-E

%81B+

EAN-8/JAN-8

%81Z+

CODE 128

%81F+

Interleave 25

%81G+

Matrix 25

%81I+

CODE 11

%81L+

MSI/PLESSEY

%81N+

BC412

%81O+

Code 2 of 6

%81P+

Telepen

%81T+

Resvered4

%81Q+

Resvered5

%81R+

All Codes

%81S+

None

%814+

C> Character Position to be Deleted

1. Decimal Value
   (Appendix A)

2. Complete

%820+

D> Number of Characters to be Deleted

1. Decimal Value
   (Appendix A)

2. Complete

%830+

6.10 Setup Insertion

To setup the insertion of output characters:

1. Scan the label of the desired set.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be inserted.
4. Scan the "Complete" label of "Character Position to be Inserted".
5. Go to the ASCII Tables in Appendix B or Function Key Tables in Appendix C, scan label(s) that represents the desired characters to be inserted.
6. Scan the "Complete" label of "Characters to be Inserted".

Repeat the steps 1 - 6 to set additional insertion.

A> Select Insertion Set Number

1. 1st Set

%500+

2. 2nd Set

%501+

3. 3rd Set

%502+

4. 4th Set

%503+

5. 5th Set

%504+

6. 6th Set

%505+

B> Symbologies Selection

UPC-A

%51A+

UPC-E

%51B+

EAN-13/JAN-13

%51Y+

EAN-8/JAN-8

%51Z+

CODE 39

%51E+

CODE 128

%51F+

CODABAR/NW7

%51J+

Interleave 25

%51G+

Industrial 25

%51H+

Matrix 25

%51I+

CODE 93

%51K+

CODE 11

%51L+

China Postage

%51M+

MSI/PLESSEY

%51N+

BC412

%51O+

Code 2 of 6

%51P+

Telepen

%51T+

Resvered4

%51Q+

Resvered5

%51R+

All Codes

%51S+

None

%514+

C> Character Position to be Inserted

1. Decimal Value
   (Appendix A)

2. Complete

%520+

D> Characters to be Inserted

1. ASCII Table
   (Appendix B)

2. Complete

%530+

IR SENSOR

<Disable>

%0XH0

Enable

%0XH1

Appendix A Decimal Value Table

0

1

2

3

4

5

6

7

8

9

Appendix B ASCII Table

NULL
00

SOH
01

STX
02

ETX
03

EOT
04

ENQ
05

ACK
06

BEL
07

BS
08

HT
09

LF
0A

VT
0B

FF
0C

CR
0D

SO
0E

SI
0F

DLE
10

DC1
11

DC2
12

DC3
13

DC4
14

NAK
15

SYN
16

ETB
17

CAN
18

EM
19

SUB
1A

ESC
1B

FS
1C

GS
1D

RS
1E

US
1F

SPACE
20

!
21

"
22

#
23

$
24

%
25

&
26

'
27

(
28

)
29

*
2A

+
2B

,
2C

-
2D

.
2E

/
2F

0
30

1
31

2
32

3
33

4
34

5
35

6
36

7
37

8
38

9
39

:
3A

;
3B

<
3C

=
3D

>
3E

?
3F

@
40

A
41

B
42

C
43

D
44

E
45

F
46

G
47

H
48

I
49

J
4A

K
4B

L
4C

M
4D

N
4E

O
4F

P
50

Q
51

R
52

S
53

T
54

U
55

V
56

W
57

X
58

Y
59

Z
5A

[
5B

\
5C

]
5D

^
5E

_
5F

`

60

a

61

b

62

c

63

d

64

e

65

f

66

g

67

h

68

i

69

j

6A

k

6B

l

6C

m

6D

n

6E

o

6F

p

70

q

71

r

72

s

73

t

74

u

75

v

76

w

77

x

78

y

79

z

7A

{

7B

|

7C

}

7D

~

7E

DEL

7F

Appendix C Function Key Table

F1
C0

F2
C1

F3
C2

F4
C3

F5
C4

F6
C5

F7
C6

F8
C7

F9
C8

F10
C9

F11
CA

F12
CB

Insert
CC

Delete
CD

Home
CE

Page Up
CF

Page Down
D0

End
D1

Left
D2

Right
D3

Up
D4

Down
D5

CD-2860 条形码读取器操作手册

- 本品经依 ANSI C63.4 (1992)及 FCC 规则第 15 章数字产品 B 级标准测试通过并授与标章。
- 本品经依欧盟规章 89/336/EEC 测试证实合于欧洲标准 EN55022:1994/A1:1995 Class B 及 EN55024/1998 之要求。
- 本条形码读取器可依所购置连接线之种类与相关设定采用不同接口(PS/2 KB, RS232, USB)使用于计算机系统中。
- 本条形码读取器可依所设定之规则读取 UPC/EAN/JAN, Code 39, Code 39 Full ASCII, Code 128 等多种国际常用与不常用之条形码。
- 更换连接线：依英文说明第 5 页之图标将细铁丝(如回纹针)之一端插入本条形码读取器背面底部之针孔中以压下连接线之卡榫即可取下连接线。插入新连接线时应插至卡榫卡入为止。
- **RS232** 接口时之电源：可选购外接式 5V DC 供电器或选购 KB 取电转接线或选购配合系统于第 9 针供应 5V DC 之连接线。
- 本条形码读取器各式连接线各针脚讯号与各种设定所应读取的设定条形码请参考英文部分之说明。一般之设定程序为：先读取开始码(Start Configuration)，再依需求读取各种所需的设定码，最后读取结束码(End Configuration)即可。